

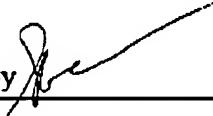
JUN 13 2007

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**FAX TRANSMISSION COVER SHEET**

To: Examiner Anita Karen Alanko  
 U. S. Patent Office - Group Art  
 Unit 1765

From: K. S. Cornaby 

Number of Pages (including cover page) 8

Hard Copy to Follow:  Yes  No

DATE: June 13, 2007

Fax No.: (571) 273-8300

TIME: 11:00 a.m.

Phone No.: (571) 272-1458

Client Name:

Charge No.: 00179.0002

Additional Information:

**URGENT**

Re:	U.S. Patent Application Serial No.:	10/809,989
	Applicant:	David Hughes Horne
	Group Art Unit:	1765
	Examiner:	Anita Karen Alanko
		(571) 272-1458

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JUN 13 2007

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: DAVID HUGHES HORNE

SERIAL NO.: 10/809,989

FILED: March 26, 2004

FOR: PROCESS FOR INCREASING STRENGTH, FLEXIBILITY AND  
FATIGUE LIFE OF METALS

GROUP ART UNIT: 1765

EXAMINER: ANITA KAREN ALANKO

RESPONSE

June 13, 2007

Examiner Anita Karen Alanko  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

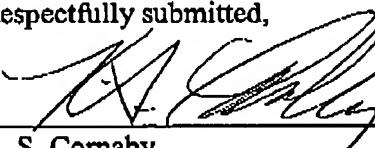
Sir:

In response to the telephone conversation the undersigned attorney had with the Examiner on Tuesday, June 12, 2007, please see the following attached sheets:

1. Material Safety Data Sheet (1 Page) – Dated 1/06/03
2. Material Safety Data Sheet (4 Pages) – Dated 5/18/01

Applicant's attorney respectfully requests a call (801) 521-3200 from the Examiner confirming receipt of this Response.

Respectfully submitted,



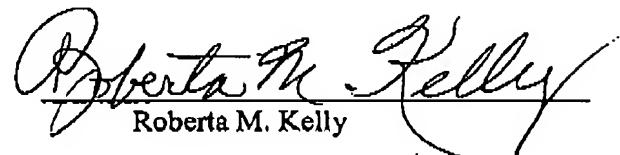
K. S. Cornaby  
Attorney for Applicant  
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PAGE 2/8 \* RCVD AT 6/13/2007 1:17:07 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/8 \* DNIS:2738300 \* CSID:801 328 0537 \* DURATION (mm:ss):02:28

**CERTIFICATE OF FACSIMILE TRANSMISSION**

I certify that the attached Response is being facsimile-transmitted to Examiner Anita Karen Alanko, Commissioner for Patents, Washington D.C. fax (571) 273-8300 on the 13<sup>th</sup> day of June, 2007.

  
Roberta M. Kelly

JUN 13 2007

**MATERIAL SAFETY DATA SHEET**

COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

**SECTION I - PRODUCT IDENTIFICATION**

**Product Name:** SUPER CORR-B  
**Product Number:** 12-350 (2-F299)  
**Product Type:** AEROSOL  
**Supplier's Name:** Lektro-Tech, Inc.  
**Supplier's Address:** 4556 S. Manhattan Ave., Suite L • Tampa, FL 36611  
**D.O.T. Hazard Class:** CONSUMER COMMODITY • ORM-D

**Formula:** Proprietary  
**Date Prepared:** 01/06/03  
**Emergency Phone:** (800) 255-3924  
**Information Phone:** (813) 805-9554

**HMIS Rating (Based on Aerosol Conc.):**  
 0-Minimal 1-Slight 2-Moderate  
 3-Serious 4-Extreme  
**HEALTH:** 2 **FIRE:** 0 **REACTIVITY:** 0  
**Personal Protection:** B

**CHEMICAL NAME**      **CAS #**      **%WT**      **313/Chem**      **Skin**      **Carcinogen**      **PEL**      **TWA/TLV**  
 1,1 - Dichloro-1-Fluoroethane 1717-00-6 80-98 NO NO NO 500 ppm 500 ppm  
 Oxygenated Hydrocarbon " 01-05 NO NO NO N/E N/E  
 Carbon Dioxide Propellant 124-38-9 01-05 NO NO NO 10,000ppm 10,000ppm  
 \*\* No CAS#: Proprietary Non-Hazardous Ingredients

**SECTION II - INGREDIENTS**

**Data Below Based On Aerosol Concentrate Only:**  
**Boiling Point** ~ 90° F  
**pH:** N/A  
**Solubility In Water:** Slight  
**Appearance/Odor:** Clear Colorless Liquid, Ether-Like Odor  
**Data Below Based On Total Contents:**  
**Vapor Pressure of can (psig @70°F):** 80  
**Total VOC %:** < 5%

**Decomposition Temperature:** 550°F  
**Vapor Density (Air=1):** >1  
**Specific Gravity (H<sub>2</sub>O=1)@75°F:** 1.230

**SECTION III - PHYSICAL DATA**

**Flash Point (of Concentrate Only):** None  
**Extinguishing Media:** Foam, CO<sub>2</sub>, Dry Media  
**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus, protective clothing. Cool fire exposed containers to prevent rupturing.

**Flammability (as per USA Flame Projection Test):** Non-Flammable Spray

**Unusual Fire and Explosion Hazards:** Exposure to temperature above 120° F may cause bursting.

**SECTION IV - FIRE AND EXPLOSION DATA**

**Stability:** Material Stable.  
**Incompatibility:** Avoid contact with strong oxidizing agents, elemental levels of Zinc, Aluminum, Magnesium and other reactive metals.  
**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride, Hydrogen Fluoride and Chlorine.

**SECTION V - REACTIVITY DATA**

**Hazardous Polymerization:** Will not occur.  
**Keep Out Of Reach Of Children.**  
**For Industrial and Institutional use only.**  
**Store in a cool, dry area away from heat or open flame.**  
**Do not store at temperatures above 120° F.**

**NFPA Code 30B Rating:** Level 1 Aerosol.

**SECTION VI - STORAGE AND HANDLING**

**PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:**  
**Eyes:** May cause slight irritation but does not injure eye tissue.  
**Skin:** Frequent or prolonged contact may cause irritation.  
**Inhalation:** Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects.  
**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.

**FIRST AID PROCEDURES:**

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.  
**Skin:** Wash with soap and water. If irritation persists seek medical attention.  
**Inhalation:** Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.  
**Ingestion:** Do not induce vomiting. Seek medical attention immediately.

**SECTION VII - HEALTH AND FIRST AID**

**Respiratory Protection:** None needed for proper use in accordance with label directions.  
**Ventilation:** Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.  
**Protective Gloves:** None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.  
**Eye Protection:** None needed unless it is anticipated that a splash or spray back will occur, then wear safety glasses or chemical proof goggles.

**SECTION VIII - SPECIAL PROTECTION DATA**

**Steps To Be Taken In Case Of Spill Or Leak:** Allow propellant and solvent to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State, and local laws. No additional cleaning should be required.  
**Waste Disposal Method:** Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE • N/E=NOT ESTABLISHED • N/D=NOT DETERMINED • <=LESS THAN • >=MORE THAN

**NOTICE:** The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all-inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

JUN 13 2007

## MATERIAL SAFETY DATA SHEET

International Lubrication and Fuel Consultants, Inc.

1201 Rio Rancho Blvd.

Rio Rancho, NM 87124

SECTION I

Identity (As used on label): ILFC Ten 06 (1006)

Chemical Names and Synonyms: CONTAC

Chemical Family: Not Applicable

Formula: Complex Mixture

Date Prepared: May 18, 2001

INFORMATION: 1-505-892-1666 EMERGENCY RESPONSE: 1-800-424-9300

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM HMIS

HEALTH: 2

FLAMMABILITY: 4

REACTIVITY: 0

SPECIAL NOTICE: -

SECTION II - HAZARDOUSCONCENTRATIONS

\*Organic Barium Compound (CAS #25619-56-1)

&lt;10%

ACGIH TLV: No Listing

OSHA PEL: No Listing

Synthetic Oil: (CAS #68037-01-4)

Trade Secret

ACGIH TLV: 5 mg/m<sup>3</sup> (as oil mist)OSHA PEL: 5 mg/m<sup>3</sup> (as oil mist)

\*Butyl Cellosolve (CAS #111-76-2)

Trade Secret

ACGIH TLV: 25 ppm

OSHA PEL: 25 ppm

Ethyl Acetate (CAS #141-78-6)

ACGIH TLV: 400 ppm

OSHA PEL: 400 ppm

\*This chemical is subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Not Available

Density (lb./gal.): 7.6

Vapor Pressure (mm Hg): Not Available

Melting Point: Not Available

Vapor Density (Air=1): Not Available

Evaporation Rate (Butyl Acetate=1): Not Available

Solubility in Water: Nil

Appearance and Odor: Viscous amber liquid, organic solvent odor

Volatile Organic Compound: Not Applicable VOC(grams/liter)

IDENTITY II/FC 1006PAGE 2SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used):	25°F (PMCC)
Flammable Limits:	
LEL -	Not determined for product
UEL -	Not determined for product
Extinguishing Media:	Water, CO <sub>2</sub> , Foam, Dry Chemical or Halon
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus
Unusual Fire and Explosion Hazards:	Vapor may travel unusual distance to source of ignition and flash back: Emits toxic fumes under fire conditions.

SECTION V - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Open flame
Incompatibility (Materials to Avoid):	Strong Oxidizing Agents
Hazardous Decomposition Product:	Irritating and/or toxic fumes including CO, CO <sub>2</sub> , NO <sub>x</sub> and various Fluorine and Chlorine compounds may be released.
Hazardous Polymerization:	None
Conditions to Avoid:	None

SECTION VI - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	Not determined for product, see Section II
Route(s) of Entry:	
Inhalation?	Yes
Skin?	Yes
Ingestion?	Yes

TOXICITY (ACUTE AND CHRONIC):

This organic barium compound (CAS #25619-56-1) has an oral LD50 (rat) of 3.5 ml/kg.  
And inhalation LC50 (rat) >21 ml/l and a dermal LD50 (rabbits) >2ml/kg.

It is a moderate skin and eye irritant.

CARCINOGENICITY: NTO-NO IARC-NO OSHA-NO

Synthetic oils may cause skin and eye irritation.

CARCINOGENICITY: NTO-NO IARC-NO OSHA-NO

Butyl Cellosolve (CAS #111-76-2) has dermal LD50 (guinea pigs) of 230 mg/kg and  
causes liver and kidney damage.

CARCINOGENICITY: NTO-NO IARC-NO OSHA-NO

IDENTITY - IFC 1006

PAGE 3

HEALTH HAZARDS:

Eyes - can cause irritation, redness, blurred vision

Skin - prolonged contact can cause irritation, dermatitis

Inhalation - can cause irritation, dizziness, nausea, fatigue, headache and unconsciousness or asphyxiation.

Ingestion - can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EMERGENCY AND FIRST AID

Skin - Wash with soap and water

Eyes - Flush with copious amounts of water, get medical attention.

Inhalation - remove to fresh air; if breathing is impaired, get medical attention

Ingestion - Do not induce vomiting, keep warm, get medical attention.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Clean spill with absorbent material

Eliminate ignition sources

Wear gloves, goggles and gas mask if TWA's are exceeded

Waste Disposal Method:

Dispose of waste in a chemical landfill as approved by current local, state and federal laws and regulations.

Precautions to be taken in handling and storage:

Protect from physical damage. Store in a cool, dry, ventilated area away from acids, alkalis, and open flames

Other precautions: None

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SECTION VII - CONTROL MEASURES

Respiratory Protection:

Use NIOSH approved organic respirator if TWA/TLV limits are exceeded

Ventilation:

Local Exhaust -

Use to maintain levels below TWA limits

Mechanical -

Use non sparking equipment

Special:

None

Other:

None

Protective Gloves:

Chemical resistant gloves

Eye Protection:

Wear safety glasses or goggles

Other Protective Equipment or Practices:

None

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PAGE 4

SECTION VIII-HAZMAT SHIPPING INFORMATION

Proper Shipping Name	Ethyl Acetate Solution
Class	3
Packing Group	II